

G007
Anthraquinone [84-65-1]

Results of Testing

Chemical Name	CAS No.	Study Code/Type	Protocol/Guideline	Species	Exposure	Dose/Concentration	No. per Group	Results	Reference
Anthraquinone	84-65-1	EEATOX Fish acute toxicity	40 CFR 797.1400 (modified)	Rainbow trout	96 hr, flow-through	10, 18, 23, 35, 55 µg/L	Not specified	Following 96 hours of exposure, no significant toxicant-related mortalities or adverse effects were observed among the test animals at any treatment level.	53 FR 45385; 11/11/88, OTS0521423
Anthraquinone	84-65-1	EEATOX Fish acute toxicity	40 CFR 797.1400 (modified)	Coho salmon	96 hr, flow-through	12, 18, 24, 30, 45 µg/L	Not specified	No significant toxicant-related mortalities or adverse effects were observed among the test animals at any of the concentration levels tested.	53 FR 45385; 11/11/88, OTS0521423
Anthraquinone	84-65-1	EEATOX Fish acute toxicity	40 CFR 797.1400 (modified)	Bluegill sunfish	14 d, flow-through	12, 16, 23, 34, 48 µg/L	Not specified	Following 14 days of exposure, there were no significant mortalities or adverse effects among the test animals.	54 FR 1989; 1/18/89, OTS0521424
Anthraquinone	84-65-1	EEATOX Acute invertebrate toxicity	40 CFR 797.1300 (modified)	<i>Daphnia magna</i>	48 hr, flow-through	6.9, 10, 18, 27, 48 µg/L	Not specified	Following the 48 hours of exposure, there were no immobilization or adverse effects observed.	54 FR 1989; 1/18/89, OTS0521424
Anthraquinone	84-65-1	EEATOX Acute invertebrate toxicity	40 CFR 797.1800 (modified)	Eastern oysters	96 hr, flow-through	6.0, 11, 17 µg/L	Not specified	Comparisons of biological response data did not establish a concentration-effect relationship at any of the concentrations tested. Shell deposition reduction among the test animals exposed to the highest concentration (17 µg/L) was 15% of control. Comparison of the response data did not establish a concentration-effect relationship within the range tested.	54 FR 1989; 1/18/89, OTS0521424
Anthraquinone	84-65-1	EEATOX Chironomid acute toxicity	40 CFR 795.4050 (modified)	<i>Chironomus tentans</i> (midge)	14 days, sediment	200 mg/kg of sediment (nominal)	Not specified	A concentration-related adverse effect was not clearly shown; a no-effect level of 0.16 mg/L (interstitial water concentration) was identified. BCF factors ranged from 106x to 433x in high and low organic sediments, respectively.	54 FR 38436; 9/18/89, OTS0521426
Anthraquinone	84-65-1	EEBIOC Mollusk bioconcentration	40 CFR 797.1830 (modified)	<i>Crassostrea virginica</i> (Eastern oyster)	17 days; 14-day depuration period, flow-through seawater	0.75 and 10 µg/L (nominal)	Not specified	Steady state was reached within 24 hours. The mean steady-state BCFs were 110x and 140x for 0.75 and 10 µg/L concentrations, respectively	54 FR 14861; 4/13/89, OTS0521425
Anthraquinone	84-65-1	EFPCHEWSOL Water solubility	40 CFR 796.1840B (modified)	Not applicable	Generator column, well water, 12 and 22 °C. pH 5, 7 and 9.	20, 50, 100, 150, 200 µg/L	Not applicable	Water solubilities for pH 5.1 at 12 °C and at 22 °C were 54.3 µg/L and 119 µg/L, respectively. The water solubilities for pH 7.0 at 12 °C and pH 7.2 at 22 °C were 76.1 µg/L and 125 µg/L, respectively. The values for pH 9.0 at 12 °C and 22 °C were 93.7 µg/L and 151 µg/L, respectively.	53 FR 45385; 11/09/88, OTS0521423